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5724 Summer Trees Drive | Memphis, Tennessee 38134 | Telephone 901-372-7962 | Facsimile 901-372-2454 | www.ensafe.com

Via email to Jeffrey.dyber@dec.ny.gov

May 11, 2015

Mr. Jeffrey Dyber, P.E.
NYSDEC, Remedial Bureau A
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

Re: Progress Report: April 2015
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

EnSafe, Inc. (EnSafe) is pleased to submit the Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in April 2015.

Soil Vapor Extraction (SVE)/Air Sparge (AS) System Operation and Maintenance (O&M)

- Operations continued this month, per the O&M Manual. During periodic O&M visits, system parameters were logged on dedicated O&M forms (**Appendix A**). Extracted soil vapor was piped through the reconfigured vapor phase granular activated carbon (GAC) treatment vessels.
- Quantitative sampling of the influent and effluent SVE system air flow was conducted on April 23, 2015. These samples were obtained by EnviroTrac, submitted to American Analytical Laboratories, and analyzed by SW-846 Method 8260B. Results are included in **Appendix B**. We believe the influent results are a false negative associated with the carbon unit reconfiguration and will be rechecking this month.
- Condensate water collected during treatment was pumped through the treatment system (cartridge filter, and GAC drum) and into the holding tank along with produced water collected from system operations.

Quarterly/Annual Groundwater Monitoring

- The first quarter 2015 groundwater sampling event was performed on March 31 and April 1, 2015, by Walden Associates. The samples are being analyzed and will be validated by a third party data validator. Results will be included in a forthcoming report, when available.

engineering | environment | health & safety | technology

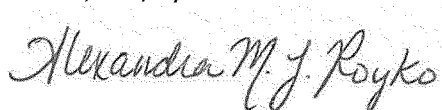
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Upcoming Work

- The Frost Street Parties awaiting NYSDEC comment and/or approval on a Supplemental Investigation/Focused Feasibility Study, as detailed in the March 2015 Work Plan.
- The Frost Street Parties are in discussions with New York State Department of Health regarding the NYSDEC request to perform air quality sampling in the Century 21 retail building adjacent to the AS/SVE system.

If you have any questions regarding this progress report, please do not hesitate to contact me at 860-665-1140 or aroyko@ensafe.com.

Sincerely,
EnSafe, Inc., by



Alexandra Royko, P.E.

Copies: A. Tamuno, Esq.	<i>Via email to amtamuno@gw.dec.state.ny.us</i>
G. Bobersky	<i>Via email to gtbobers@gw.dec.state.ny.us</i>
J. Nealon, NYSDOH	<i>Via email to jacquelyn.nealon@health.ny.gov</i>
J. DeFranco, NCDOH	<i>Via email to jdefranco@nassaucountyny.gov</i>
R. Stallone, Spiegel Realty	<i>Via email to rstallone@spiegelrealty.com</i>
K. Maldonado, Esq.	<i>Via email to kevinmaldonado64@yahoo.com</i>
J. Privitera, Esq.	<i>Via email to privitera@mltw.com</i>
J. LaPoma, U.S. EPA	<i>Via email to lapoma.jennifer@epa.gov</i>
J. Heaney, Walden Associates	<i>Via email to jheaney@walden-associates.com</i>
C. Wise, EnSafe	<i>Via email to cwise@ensafe.com</i>

Appendix A

SVE/AS System O&M Logs

Operation & Maintenance Data Sheet
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 8-Apr
Weather / Temp: Cloudy / 40 DEG
Technician / Operator: DW

Arrival Time: 7:00
Departure Time: 12:00

System Status									
	Arrival	Departure		Arrival	Departure				
SVE Blower 1 (ON/OFF)	ON	OFF	Sensaphone (ON/OFF)	ON	ON				
SVE Blower 2 (ON/OFF)	OFF	ON	Surge Protection (ON/OFF)	ON	ON				
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White				
AS Compressor 2 (ON/OFF)	ON	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500	884	Blower 1 Total Runtime (hrs)	38,525.8					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	39,854.3					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	4		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	70		VGAC-1 Influent PID (ppm)	15.0					
VGAC-1 Effluent Vacuum ("H2O)	76		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	64		VGAC-2 Influent PID (ppm)	15.0					
VGAC-2 Effluent Vacuum ("H2O)	66		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Pressure ("H2O)	9		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Pressure ("H2O)	2.4		VGAC-3 Effluent PID (ppm)	0.0					
VGAC-3 Influent Temperature (DegF)	122		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure (psi)	0								
Transfer Pump Total Runtime (hrs)	25,020.5		Condensate Storage Tank Level (gal)	180					
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	8000	175	8.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	44	4400	96	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	54	4500	98	21.5	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	44	3000	65	1.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	46	5000	109	9.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	44	6500	142	66.4
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	44	4400	96	0.8	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	46	3100	68	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	80			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	168			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	10,505.0			
Manifold Regulator Pressure (psi)	55								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	15	7	AS-11 (psi)/(cfm)	17	6				
AS-2 (psi)/(cfm)	14	12	AS-12B (psi)/(cfm)	15	7				
AS-3 (psi)/(cfm)	3	11	AS-13B (psi)/(cfm)	15	7				
AS-4 (psi)/(cfm)	5	9	AS-14 (psi)/(cfm)	14	7				
AS-5 (psi)/(cfm)	16	8	AS-15 (psi)/(cfm)	17	9				
AS-6 (psi)/(cfm)	14	8	AS-16B (psi)/(cfm)	10	10				
AS-7 (psi)/(cfm)	16	8	AS-17 (psi)/(cfm)	16	8				
AS-8 (psi)/(cfm)	15	7	AS-18 (psi)/(cfm)	15	7				
AS-9 (psi)/(cfm)	16	7	AS-19 (psi)/(cfm)	16	9				
AS-10B (psi)/(cfm)	15	9							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Operation & Maintenance Data Sheet
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 17-Apr
Weather / Temp: Rain / 56 DEG
Technician / Operator: DW

Arrival Time: 12:00
Departure Time: 13:30

System Status									
	Arrival	Departure		Arrival	Departure				
SVE Blower 1 (ON/OFF)	ON	ON	Sensaphone (ON/OFF)	ON	ON				
SVE Blower 2 (ON/OFF)	OFF	OFF	Surge Protection (ON/OFF)	ON	ON				
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White				
AS Compressor 2 (ON/OFF)	ON	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4400	864	Blower 1 Total Runtime (hrs)	38,634.8					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	39,962.7					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	10					
Moisture Separator Vacuum ("Hg)	4		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	72		VGAC-1 Influent PID (ppm)	11.0					
VGAC-1 Effluent Vacuum ("H2O)	66		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	64		VGAC-2 Influent PID (ppm)	11.0					
VGAC-2 Effluent Vacuum ("H2O)	60		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Pressure ("H2O)	8		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Pressure ("H2O)	2		VGAC-3 Effluent PID (ppm)	0.0					
VGAC-3 Influent Temperature (DegF)	140		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure (psi)	19								
Transfer Pump Total Runtime (hrs)	25,020.5		Condensate Storage Tank Level (gal)	180					
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	50	7750	169		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	42	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	42	4800	105		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	42	3100	68	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	42	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	3300	72	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	80			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	200			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	10,557.0			
Manifold Regulator Pressure (psi)	50								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	15	7	AS-11 (psi)/(cfm)		16	5			
AS-2 (psi)/(cfm)	15	12	AS-12B (psi)/(cfm)		15	6			
AS-3 (psi)/(cfm)	4	12	AS-13B (psi)/(cfm)		15	7			
AS-4 (psi)/(cfm)	0	8	AS-14 (psi)/(cfm)		15	7			
AS-5 (psi)/(cfm)	16	8	AS-15 (psi)/(cfm)		16	9			
AS-6 (psi)/(cfm)	13	7	AS-16B (psi)/(cfm)		10	10			
AS-7 (psi)/(cfm)	15	7	AS-17 (psi)/(cfm)		16	7			
AS-8 (psi)/(cfm)	15	6	AS-18 (psi)/(cfm)		15	6			
AS-9 (psi)/(cfm)	15	7	AS-19 (psi)/(cfm)		16	8			
AS-10B (psi)/(cfm)	15	9							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Operation & Maintenance Data Sheet
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 23-Apr
Weather / Temp: Clear / 50 DEG
Technician / Operator: DW

Arrival Time: 6:00
Departure Time: 8:00

System Status									
	Arrival	Departure		Arrival	Departure				
SVE Blower 1 (ON/OFF)	OFF	OFF	Sensaphone (ON/OFF)	ON	ON				
SVE Blower 2 (ON/OFF)	ON	ON	Surge Protection (ON/OFF)	ON	ON				
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White				
AS Compressor 2 (ON/OFF)	ON	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4500	884	Blower 1 Total Runtime (hrs)	38,705.9					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	40,031.6					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	3.5		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	72		VGAC-1 Influent PID (ppm)	12.0					
VGAC-1 Effluent Vacuum ("H2O)	66		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	60		VGAC-2 Influent PID (ppm)	12.0					
VGAC-2 Effluent Vacuum ("H2O)	60		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Pressure ("H2O)	9		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Pressure ("H2O)	2		VGAC-3 Effluent PID (ppm)	0.0					
VGAC-3 Influent Temperature (DegF)	140		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure ("H2O)	20								
Transfer Pump Total Runtime (hrs)	25,020.5		Condensate Storage Tank Level (gal)	180					
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	48	7500	164	8.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	40	4500	98	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	50	4500	98	18.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	42	3200	70	0.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	42	4900	107	3.8	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	40	6500	142	43.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	40	4200	92	0.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	44	3300	72	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs				Compressor 2 Pressure (psi)	77			
Compressor 1 Temperature (degF)	Off for repairs				Compressor 2 Temperature (degF)	197			
Compressor 1 Runtime (hrs)	27,317.0				Compressor 2 Runtime (hrs)	10,862.0			
Manifold Regulator Pressure (psi)	50								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure		Flow Rate			Pressure		Flow Rate	
AS-1 (psi)/(cfm)	15		7		AS-11 (psi)/(cfm)	16		6	
AS-2 (psi)/(cfm)	15		11		AS-12B (psi)/(cfm)	15		7	
AS-3 (psi)/(cfm)	2.5		12		AS-13B (psi)/(cfm)	15		8	
AS-4 (psi)/(cfm)	0		9		AS-14 (psi)/(cfm)	16		8	
AS-5 (psi)/(cfm)	16		8		AS-15 (psi)/(cfm)	15		10	
AS-6 (psi)/(cfm)	13.5		8		AS-16B (psi)/(cfm)	16		10	
AS-7 (psi)/(cfm)	15.5		8		AS-17 (psi)/(cfm)	15		8	
AS-8 (psi)/(cfm)	15		7		AS-18 (psi)/(cfm)	15		7	
AS-9 (psi)/(cfm)	15		7		AS-19 (psi)/(cfm)	15.5		8	
AS-10B (psi)/(cfm)	15		9						

Notes, Comments & Observations:

Compressor 1 off for repairs.

Collected monthly samples.

Operation & Maintenance Data Sheet
Ensafe-Frost Street
101 Frost Street
Westbury, NY

EnviroTrac Environmental Services
5 Old Dock Road, Yaphank, NY 11980
(631)924-3001, Fax (631)924-5001

Date: 27-Apr
Weather / Temp: Clear / 50 DEG
Technician / Operator: DW

Arrival Time: 8:00
Departure Time: 9:00

System Status											
		Arrival		Departure				Arrival		Departure	
SVE Blower 1 (ON/OFF)		ON		OFF		Sensaphone (ON/OFF)		ON		ON	
SVE Blower 2 (ON/OFF)		OFF		ON		Surge Protection (ON/OFF)		ON		ON	
AS Compressor 1 (ON/OFF)		OFF		OFF		Lightning Protection (White/Black)		White		White	
AS Compressor 2 (ON/OFF)		ON		ON							
Soil Vapor Extraction System											
Blower Air Velocity/Flow Rate (fpm)/(cfm)		4400		864		Blower 1 Total Runtime (hrs)		38,757.8			
Blower 1 Fresh Air Valve Open (%)		0				Blower 2 Total Runtime (hrs)		40,076.6			
Blower 2 Fresh Air Valve Open (%)		0				Blower 1 Air Filter Differential Pressure ("H2O)		0			
Moisture Separator Vacuum ("Hg)		3.5				Blower 2 Air Filter Differential Pressure ("H2O)		10			
VGAC-1 Influent Vacuum ("H2O)		72				VGAC-1 Influent PID (ppm)		0.0			
VGAC-1 Effluent Vacuum ("H2O)		68				VGAC-1 Effluent PID (ppm)		10.5			
VGAC-2 Influent Vacuum ("H2O)		60				VGAC-2 Influent PID (ppm)		0.0			
VGAC-2 Effluent Vacuum ("H2O)		62				VGAC-2 Effluent PID (ppm)		10.5			
VGAC-3 Influent Pressure ("H2O)		6				VGAC-3 Influent PID (ppm)		0.0			
VGAC-3 Effluent Pressure ("H2O)		2				VGAC-3 Effluent PID (ppm)		0.0			
VGAC-3 Influent Temperature (DegF)		138				Blower Effluent PID (ppm)		0.0			
Blower Effluent Pressure ("H2O)		18									
Transfer Pump Total Runtime (hrs)		25,020.5				Condensate Storage Tank Level (gal)		180			
SVE Manifold Legs - Vacuum/Flow Rate/PID											
		Vacuum	Velocity	Flow Rate	PID			Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)		48	7500	164		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)		42	4200	92	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)		40	4500	98		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)		42	3100	68	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)		42	4800	105		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)		42	6500	142	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)		42	4200	92		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)		42	3400	74	
Air Sparge System											
Compressor 1 Pressure (psi)		Off for repairs				Compressor 2 Pressure (psi)		77			
Compressor 1 Temperature (degF)		Off for repairs				Compressor 2 Temperature (degF)		197			
Compressor 1 Runtime (hrs)		27,317.0				Compressor 2 Runtime (hrs)		10,959.0			
Manifold Regulator Pressure (psi)		50									
AS Manifold Legs - Pressure/Flow Rate											
		Pressure		Flow Rate				Pressure		Flow Rate	
AS-1 (psi)/(cfm)		15		7		AS-11 (psi)/(cfm)		16		6	
AS-2 (psi)/(cfm)		15		11		AS-12B (psi)/(cfm)		15		7	
AS-3 (psi)/(cfm)		3		12		AS-13B (psi)/(cfm)		15		7	
AS-4 (psi)/(cfm)		0		9		AS-14 (psi)/(cfm)		15		8	
AS-5 (psi)/(cfm)		16		8		AS-15 (psi)/(cfm)		15.5		9	
AS-6 (psi)/(cfm)		14		7		AS-16B (psi)/(cfm)		15		10	
AS-7 (psi)/(cfm)		15		7		AS-17 (psi)/(cfm)		16		8	
AS-8 (psi)/(cfm)		15		7		AS-18 (psi)/(cfm)		15		8	
AS-9 (psi)/(cfm)		15		7		AS-19 (psi)/(cfm)		15		8	
AS-10B (psi)/(cfm)		15		9							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Appendix B

SVE System Influent/Effluent Sampling (SW-846 Method 8260B) Laboratory Analytical Results



*American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com*

April 24, 2015

Jim Wilkinson
Envirotrac
5 Old Dock Road
Yaphank, NY 11980
TEL: (631) 924-3001
FAX (631) 924-5001

RE: 101 Frost St., Westbury, NY

Order No.: 1504218

Dear Jim Wilkinson:

American Analytical Laboratories, LLC. received 2 sample(s) on 4/23/2015 for the analyses presented in the following report.

Samples were analyzed in accordance with the test procedures documented on the chain of custody and detailed throughout the text of this report. The results reported herein relate only to the items tested or to the samples as received by the laboratory. This report may not be reproduced, except in full, without the approval of American Analytical Laboratories, LLC and is not considered complete without a cover page and chain of custody documentation. The limits (LOQ) provided in the data package are analytical reporting limits and not Federal or Local mandated values to which the sample results should be compared.

There were no problems with the analyses and all data for associated QC met laboratory specifications. If there are any exceptions a Case Narrative is provided in the report or the data is qualified either on the sample results or in the QC section of the report. This package has been reviewed by American Analytical Laboratories' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

If you have any questions regarding these tests results, please do not hesitate to call (631) 454-6100 or email me directly at lbeyer@american-analytical.com.

Sincerely,

Lori Beyer
Lab Director
American Analytical Laboratories, LLC.

Original

Page 1 of 12



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Workorder Sample Summary

WO#: 1504218
24-Apr-15

CLIENT: Envirotrac
Project: 101 Frost St., Westbury, NY

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1504218-001A	SVE Influent		4/23/2015 7:40:00 AM	4/23/2015 1:35:00 PM	Air
1504218-002A	SVE Effluent		4/23/2015 7:30:00 AM	4/23/2015 1:42:57 PM	Air

CHAIN OF CUSTODY

56 Toledo Street, Farmingdale NY 11735
(T) 631-454-6100 (F) 631-454-8027
www.american-analytical.com

CERTIFICATIONS

NY ELAP - 11418 PA DEP - 68-00573
NJ DEP - NY050 CT DOH - PH-0205

[illegible]



American Analytical Laboratories, LLC.
56 Toledo Street
Farmingdale, New York 11735
TEL: (631) 454-6100 FAX: (631) 454-8027
Website: www.American-Analytical.com

Sample Log-In Check List

Client Name: **ENVIROTRAC**

Work Order Number: **1504218**

RcptNo: **1**

Logged by: **Lori Beyer** **4/23/2015 1:42:57 PM**

Lori Beyer

Completed By: **Lori Beyer** **4/23/2015 1:43:42 PM**

Lori Beyer

Reviewed By: **Karen Kelly** **4/24/2015**

Karen Kelly

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☐ NA ☒
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

18. Additional remarks:

Air Samples

Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
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Case Narrative

WO#: 1504218

Date: 4/24/2015

CLIENT: Envirotrac
Project: 101 Frost St., Westbury, NY

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846 and additional methods as detailed throughout the text of the report. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives with exceptions notated in this Narrative discussion and/or in the QC Summary Section of the lab report with appropriate qualifiers. Additional quality control information such as surrogate recovery values for organic testing is provided as part of the analytical results. Batch MS/MSD results are provided in the QC section of the lab report unless the MS/MSD summary forms indicate one of your sample identifications. MS/MSD results relate only to the parent sample that was spiked.



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Definition Only

WO#: 1504218
Date: 4/24/2015

Definitions:

Sample Result and QC Summary Qualifiers - Level I and Level II Reports

ND - Not detected at the reporting limit/Limit of Quantitation

B - The analyte was detected in the associated method blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything $<5\times$ the blank value as artifact.

E - The value is above the quantitation range

D - Analyte concentration was obtained from diluted analysis or from analysis using reduced sample volume.

J - The analyte was detected below the limit of quantitation but greater than the established Limit of Detection (LOD). There is greater uncertainty associated with these results and data should be considered as estimated.

U - The compound was analyzed for but not detected.

H - Holding time for preparation or analysis has been exceeded.

S - Spike recovery is outside accepted recovery limits.

R - RPD is outside accepted recovery range.

P - Secondary column exceeds 40% difference for GC test.

* - Calibration exceeds method requirement. Due to the large number of analytes for organic testing, the method allows 10% of analytes to have %RSD and/or %D to be $>20\%$.

LOD - Limit of Detection; the lowest level the analyte can be determined to be statistically different from a blank.

LOQ - Limit of Quantitation; the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy.

m - Analyte was manually integrated for GC/MS.

+ - Concentration exceeds regulatory level for TCLP

American Analytical Laboratories, LLC.**Date:** 24-Apr-15**ELAP ID :** 11418**CLIENT:** Envirotrac**Client Sample ID:** SVE Influent**Lab Order:** 1504218**Collection Date:** 4/23/2015 7:40:00 AM**Project:** 101 Frost St., Westbury, NY**Matrix:** AIR**Lab ID:** 1504218-001A**Certificate of Results**

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260 - AIR			SW8260C		SW5030C		Analyst: LA
1,1,1-Trichloroethane	ND	18	37	U	ppbv	1	4/24/2015 12:09:00 PM
1,1,2,2-Tetrachloroethane	ND	15	29	U	ppbv	1	4/24/2015 12:09:00 PM
1,1,2-Trichloroethane	ND	18	36	U	ppbv	1	4/24/2015 12:09:00 PM
1,1-Dichloroethane	ND	25	49	U	ppbv	1	4/24/2015 12:09:00 PM
1,1-Dichloroethene	ND	25	50	U	ppbv	1	4/24/2015 12:09:00 PM
1,2-Dichloroethane	ND	25	49	U	ppbv	1	4/24/2015 12:09:00 PM
cis-1,2-Dichloroethene	ND	25	50	U	ppbv	1	4/24/2015 12:09:00 PM
Tetrachloroethene	ND	14	29	U	ppbv	1	4/24/2015 12:09:00 PM
trans-1,2-Dichloroethene	ND	25	50	U	ppbv	1	4/24/2015 12:09:00 PM
Trichloroethene	ND	18	37	U	ppbv	1	4/24/2015 12:09:00 PM
Vinyl chloride	ND	39	78	U	ppbv	1	4/24/2015 12:09:00 PM
Surr: 4-Bromofluorobenzene	97.4	0.2	68-126		%REC	1	4/24/2015 12:09:00 PM
Surr: Dibromofluoromethane	96.8	0.2	70-126		%REC	1	4/24/2015 12:09:00 PM
Surr: Toluene-d8	99.8	0.2	72-122		%REC	1	4/24/2015 12:09:00 PM

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American Analytical Laboratories, LLC.

Date: 24-Apr-15

ELAP ID : 11418

CLIENT: Envirotrac

Client Sample ID: SVE Effluent

Lab Order: 1504218

Collection Date: 4/23/2015 7:30:00 AM

Project: 101 Frost St., Westbury, NY

Matrix: AIR

Lab ID: 1504218-002A

Certificate of Results

Analyses	Sample Result	LOD	LOQ	Qual	Units	DF	Date/Time Analyzed
VOLATILE SW-846 METHOD 8260 - AIR			SW8260C	SW5030C	Analyst: LA		
1,1,1-Trichloroethane	ND	18	37	U	ppbv	1	4/24/2015 11:13:00 AM
1,1,2,2-Tetrachloroethane	ND	15	29	U	ppbv	1	4/24/2015 11:13:00 AM
1,1,2-Trichloroethane	ND	18	36	U	ppbv	1	4/24/2015 11:13:00 AM
1,1-Dichloroethane	ND	25	49	U	ppbv	1	4/24/2015 11:13:00 AM
1,1-Dichloroethene	ND	25	50	U	ppbv	1	4/24/2015 11:13:00 AM
1,2-Dichloroethane	ND	25	49	U	ppbv	1	4/24/2015 11:13:00 AM
cis-1,2-Dichloroethene	ND	25	50	U	ppbv	1	4/24/2015 11:13:00 AM
Tetrachloroethene	ND	14	29	U	ppbv	1	4/24/2015 11:13:00 AM
trans-1,2-Dichloroethene	ND	25	50	U	ppbv	1	4/24/2015 11:13:00 AM
Trichloroethene	ND	18	37	U	ppbv	1	4/24/2015 11:13:00 AM
Vinyl chloride	ND	39	78	U	ppbv	1	4/24/2015 11:13:00 AM
Surr: 4-Bromofluorobenzene	96.2	0.2	68-126		%REC	1	4/24/2015 11:13:00 AM
Surr: Dibromofluoromethane	97.8	0.2	70-126		%REC	1	4/24/2015 11:13:00 AM
Surr: Toluene-d8	98.6	0.2	72-122		%REC	1	4/24/2015 11:13:00 AM

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QC SUMMARY REPORT

WO#: 1504218

24-Apr-15

Client: Envirotrac
Project: 101 Frost St., Westbury, NY

BatchID: 4643

Sample ID	LCS-4643	SampType:	LCS	TestCode:	8260_AIR	Units:	ppbv	Prep Date:	4/24/2015	RunNo:	7958
Client ID:	LCSW	Batch ID:	4643	TestNo:	SW8260C		SW5030C	Analysis Date:	4/24/2015	SeqNo:	147818
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	18000	50	20040	0	87.6	31	133				
Benzene	13000	63	15670	0	80.0	40	121				
Chlorobenzene	8500	44	10920	0	77.8	51	120				
Ethylbenzene	12000	46	13170	0	87.6	52	120				
Tetrachloroethene	5600	29	7364	0	76.3	45	120				
Toluene	11000	53	13430	0	82.6	44	121				
Trichloroethene	7700	37	9404	0	81.9	49	120				
Surr: 4-Bromofluorobenzene	6700		7026		95.1	68	126				
Surr: Dibromofluoromethane	11000		10820		99.3	70	126				
Surr: Toluene-d8	13000		12470		100	72	122				

Sample ID	MB-4643	SampType:	MBLK	TestCode:	8260_AIR	Units:	ppbv	Prep Date:	4/24/2015	RunNo:	7958
Client ID:	PBW	Batch ID:	4643	TestNo:	SW8260C		SW5030C	Analysis Date:	4/24/2015	SeqNo:	147819
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	29									U
1,1,1-Trichloroethane	ND	37									U
1,1,2,2-Tetrachloroethane	ND	29									U
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	26									U
1,1,2-Trichloroethane	ND	36									U
1,1-Dichloroethane	ND	49									U
1,1-Dichloroethene	ND	50									U
1,1-Dichloropropene	ND	44									U
1,2,3-Trichlorobenzene	ND	27									U
1,2,3-Trichloropropane	ND	33									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1504218

24-Apr-15

Client: Envirotrac
Project: 101 Frost St., Westbury, NY

BatchID: 4643

Sample ID	MB-4643	SampType: MBLK	TestCode: 8260_AIR	Units: ppbv	Prep Date: 4/24/2015	RunNo: 7958					
Client ID:	PBW	Batch ID: 4643	TestNo: SW8260C	SW5030C	Analysis Date: 4/24/2015	SeqNo: 147819					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4,5-Tetramethylbenzene	ND	36									U
1,2,4-Trichlorobenzene	ND	27									U
1,2,4-Trimethylbenzene	ND	41									U
1,2-Dibromo-3-chloropropane	ND	21									U
1,2-Dibromoethane	ND	26									U
1,2-Dichlorobenzene	ND	33									U
1,2-Dichloroethane	ND	49									U
1,2-Dichloropropane	ND	43									U
1,3,5-Trimethylbenzene	ND	41									U
1,3-Dichlorobenzene	ND	33									U
1,3-dichloropropane	ND	43									U
1,4-Dichlorobenzene	ND	33									U
1,4-Dioxane	ND	55									U
2,2-Dichloropropane	ND	40									U
2-Butanone	ND	140									U*
2-Chloroethyl vinyl ether	ND	92									U*
2-Chlorotoluene	ND	39									U
2-Hexanone	ND	98									U
2-Propanol	ND	81									U
4-Chlorotoluene	ND	39									U
4-Isopropyltoluene	ND	36									U
4-Methyl-2-pentanone	ND	98									U
Acetone	780	170									*
Acrolein	ND	260									U
Acrylonitrile	ND	92									U
Benzene	ND	63									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1504218

24-Apr-15

Client: Envirotrac
Project: 101 Frost St., Westbury, NY

BatchID: 4643

Sample ID	MB-4643	SampType:	MBLK	TestCode:	8260_AIR	Units:	ppbv	Prep Date:	4/24/2015	RunNo:	7958	
Client ID:	PBW	Batch ID:	4643	TestNo:	SW8260C	SW5030C		Analysis Date:	4/24/2015	SeqNo:	147819	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromobenzene		ND	31									U
Bromochloromethane		ND	38									U
Bromodichloromethane		ND	30									U
Bromoform		ND	19									U
Bromomethane		ND	51									U
Carbon disulfide		ND	34									U
Carbon tetrachloride		ND	32									U
Chlorobenzene		ND	44									U
Chlorodifluoromethane		ND	57									U
Chloroethane		ND	76									U
Chloroform		ND	41									U
Chloromethane		ND	96									U
cis-1,2-Dichloroethene		ND	50									U
cis-1,3-Dichloropropene		ND	50									U
Dibromochloromethane		ND	24									U
Dibromomethane		ND	28									U
Dichlorodifluoromethane		ND	40									U
Diisopropyl ether		ND	48									U
Ethanol		ND	300									U
Ethyl acetate		ND	55									U
Ethylbenzene		ND	46									U
Freon-114		ND	29									U
Hexachlorobutadiene		ND	19									U
Isopropyl acetate		ND	48									U
Isopropylbenzene		ND	41									U
m,p-Xylene		ND	92									U

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1504218

24-Apr-15

Client: Envirotrac
Project: 101 Frost St., Westbury, NY

BatchID: 4643

Sample ID	MB-4643	SampType: MBLK	TestCode: 8260_AIR	Units: ppbv	Prep Date: 4/24/2015	RunNo: 7958					
Client ID:	PBW	Batch ID: 4643	TestNo: SW8260C	SW5030C	Analysis Date: 4/24/2015	SeqNo: 147819					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	ND	55									U
Methylene chloride	2500	58									*
n-Amyl acetate	ND	38									U
n-Butyl acetate	ND	42									U
n-Butylbenzene	ND	36									U
n-Propyl acetate	ND	48									U
n-Propylbenzene	ND	41									U
Naphthalene	ND	38									U
o-Xylene	ND	46									U
p-Diethylbenzene	ND	36									U
p-Ethyltoluene	ND	41									U
sec-Butylbenzene	ND	36									U
Styrene	ND	47									U
t-Butyl alcohol	ND	66									U
tert-Butylbenzene	ND	36									U
Tetrachloroethene	ND	29									U
Toluene	ND	53									U
trans-1,2-Dichloroethene	ND	50									U
trans-1,3-Dichloropropene	ND	44									U
Trichloroethene	ND	37									U
Trichlorofluoromethane	ND	36									U
Vinyl acetate	ND	57									U
Vinyl chloride	ND	78									U
Surr: 4-Bromofluorobenzene	6800		7026		97.3	68	126				
Surr: Dibromofluoromethane	9900		10820		91.4	70	126				
Surr: Toluene-d8	12000		12470		99.6	72	122				

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1504218
24-Apr-15

Client: Envirotrac
Project: 101 Frost St., Westbury, NY

BatchID: 4643

Sample ID	MB-4643	SampType:	MBLK	TestCode:	8260_AIR	Units:	ppbv	Prep Date:	4/24/2015	RunNo:	7958
Client ID:	PBW	Batch ID:	4643	TestNo:	SW8260C	SW5030C		Analysis Date:	4/24/2015	SeqNo:	147819
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Qualifiers: R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

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